

Amendments to the Specification:

Please replace paragraph [48] with the following amended paragraph:

[48] Figure 5 is a simplified diagram 500 of current plotted against time for a nanowire switch according to an embodiment of the present invention. This diagram is merely an example and should not unduly limit the scope of the claims herein. One of ordinary skill in the art would recognize many other variations, modifications, and alternatives. As shown, the diagram 500 includes a vertical axis 501, which is electrical current in Amperes, and a horizontal axis 503, which is time in seconds. Here, the active surface of the light is illuminated with electro-magnetic radiation (e.g., light) at 355 nm 505, for example. As shown, current 505 flows in a step-like manner, which provides an ON-state characteristic through the nanowire structure, such as the one described above, but can be others. Alternatively, substantially no current flows in regions [[407]]507 and [[409]]509 where light is not illuminated onto the active surface of the nanowire structure, which provides on OFF-state characteristic.